



General information

Wellbore name	25/5-9
Type	EXPLORATION
Purpose	WILDCAT
Status	P&A
Press release	link to press release
Factmaps in new window	link to map
Main area	NORTH SEA
Field	TYRVING
Discovery	25/5-9 (Trell)
Well name	25/5-9
Seismic location	MC3D-NVG11M
Production licence	102 F
Drilling operator	Total E&P Norge AS
Drill permit	1501-L
Drilling facility	LEIV EIRIKSSON
Drilling days	56
Entered date	01.01.2014
Completed date	25.02.2014
Release date	25.02.2016
Publication date	25.02.2016
Purpose - planned	WILDCAT
Reentry	NO
Content	OIL
Discovery wellbore	YES
1st level with HC, age	PALEOCENE
1st level with HC, formation	HEIMDAL FM
Kelly bushing elevation [m]	25.0
Water depth [m]	122.0
Total depth (MD) [m RKB]	2265.0
Final vertical depth (TVD) [m RKB]	2265.0
Maximum inclination [°]	2.2
Bottom hole temperature [°C]	83
Oldest penetrated age	PALEOCENE
Oldest penetrated formation	HEIMDAL FM
Geodetic datum	ED50
NS degrees	59° 37' 4.69" N
EW degrees	2° 23' 47.12" E
NS UTM [m]	6609175.00



EW UTM [m]	465945.05
UTM zone	31
NPDID wellbore	7345

Wellbore history

General

Well 25/5-9 was drilled on the Trell prospect on the Heimdal Terrace in the North Sea. The primary objective was to test the quality, thickness and hydrocarbon potential of the Paleocene Heimdal Formation sandstone. If the well was proven hydrocarbon bearing, a 30m core was to be cut followed by a full WL acquisition and a DST in order to assess the hydrocarbon potential in the prospect. Well 25/5-9 is the replacement well for 25/5-8, which was abandoned at 1199 m due to hole problems when setting the 13 43/8" casing. The location of well 25/5-9 was set 51 m south-west from 25/5-8 in order to reach the same target without having to re-position the anchors or having to perform directional drilling.

Operations and results

Wildcat well 25/5-9 was spudded with the semi-submersible installation Leiv Eiriksson on 1 January 2014 and drilled to TD at 2265 m in the Paleocene Heimdal Formation. Operations were interrupted several times mainly due to bad weather conditions. Otherwise, no major problem occurred in the operations. The well was drilled with seawater and hi-vis pills down to 491 m, with Glydril mud from 491 m to 1260 m, with Sildril WBM from 1260 m to 2153 m, and with FloPro WBM from 2153 m to TD.

The target Heimdal Formation was encountered at 2182 m, 8 m shallow to prognosis. The Heimdal Formation was oil bearing down to the OWC at 2203 m. Sampling and pressure readings indicated very good productivity. Oil shows were described over the oil-bearing section and continued down to 2240 m with intermittent shows down to a depth of 2255 m.

Coring was attempted but failed for technical reasons. MDT fluid samples were taken at 2182.5 m (oil), and at 2207 m (water). PVT analysis of the oil sample gave a stock tank density of 0.835 g/cm³ and a GOR of 38 Sm³/Sm³.

The well was permanently abandoned on 25 February 2014 as an oil discovery

Testing

Due to short oil column no drill stem test was performed.

Cuttings at the Norwegian Offshore Directorate

Cutting sample, top depth [m]	Cutting samples, bottom depth [m]
491.00	2264.00

Cuttings available for sampling?	YES
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**Lithostratigraphy**

Top depth [mMD RKB]	Lithostrat. unit
147	NORDLAND GP
390	UTSIRA FM
924	HORDALAND GP
978	SKADE FM
1052	HORDALAND GP
1293	GRID FM
2036	FRIGG FM
2083	ROGALAND GP
2083	BALDER FM
2104	SELE FM
2138	LISTA FM
2182	HEIMDAL FM

Logs

Log type	Log top depth [m]	Log bottom depth [m]
LWD - DSI ROP GR APWD	146	1999

Casing and leak-off tests

Casing type	Casing diam. [inch]	Casing depth [m]	Hole diam. [inch]	Hole depth [m]	LOT/FIT mud eqv. [g/cm3]	Formation test type
CONDUCTOR	30	215.0	36	215.0	0.00	
SURF.COND.	20	481.0	26	491.0	0.00	
INTERM.	13 3/8	1250.0	17 1/2	1260.0	1.50	FIT
INTERM.	9 5/8	2119.0	12 1/4	2153.0	1.46	FIT
OPEN HOLE		2265.0	8 1/2	2265.0	0.00	

Drilling mud

Depth MD [m]	Mud weight [g/cm3]	Visc. [mPa.s]	Yield point [Pa]	Mud type	Date measured
491	1.35	33.0		Spud Mud	
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559	1.15	10.0		Polymer New Tech	
1260	1.20	13.0		Polymer New Tech	



1264	1.33	19.0		Silicate	
1461	1.35	16.0		Silicate	
2153	1.35	15.0		Silicate	
2265	1.14	10.0		Drill-In Fluid	